LAND UTILIZATION OF SLUDGE
PERMIT APPLICATION

SEATTLE-KING COUNTY
DEPARTMENT OF PUBLIC HEALTH
Environmental Health Division

ease complete this form and return it with the non-refundable permit application fee of $150, plus $10 for each acre proposed for sludge application), with the total not to exceed $500 to: Seattle-King County Department of Public Health, Attention: Licenses & Permits Section, 400 Yesler Bldg., 7th Floor, MS-15L, Seattle, WA 98104. In addition, following approval of the permit application, an annual site permit will be issued which has an accompanying fee of $100.

If you have any questions regarding this form or would like additional information, please contact the Solid Waste Program Staff at 625-2125.

PART I - General Information

A. APPLICATION SITE		B. GENERATOR OF SLUDGE	
Name:	King County International Airport	Name:	Metro (AIKi treatment Plant)
Address or *Legal	P.O. Box 80245	Address:	821 2nd Ave
	Seattle 98108		Seattle Wash.
Owner:	King County	Contact Person:	Mark Lucas
Address:		Phone:	447-4090
Phone:	344-7390		

*Note Please attach a "vicinity map" if legal description is used.

C. If site ownership consists of a partnership, corporation, association, or other entity, please list the names and addresses of the partners, co-partners, Board of Directors, or governing body, or if the land is leased, the lessee (indicate NA if not applicable):

N A

D. If the sludge is to be transported and/or applied to the land by a company other than the Generator, please provide the name, address and phone (otherwise, indicate "same as generator"):

Bayside Disposal Co.
7201 W Marginal Way S.W.
Seattle Wash.

The tank trailer being used is owned by Metro

Bill Snyder 762-3004

PART II - Characteristics

NOTE: If any of the following required information is included in an accepted work plan, DS/NS, or other document, it is acceptable to reference the location and attach a copy to minimize unnecessary duplication.

1. Use of adjacent property within a quarter mile (check appropriate box):

	NORTH	SOUTH	WEST	EAST
a. Residential				X
b. Commercial	X	X		X
c. Light Industrial	X	X		
d. Heavy Industrial			X	
e. Agricultural				
f. Mixed				
g. Other				

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2. Attach a copy of a topography map of the site (a scale range of 1" = 100' - 1000' is acceptable), plotting the following as they occur within a mile radius of the proposed site. The contour interval and scale for mapping must be approved by the Health Department prior to submittal:

a. Wells (domestic and agricultured)
b. Springs (include direction of flow)
c. Swamps
d. Streams (include direction of flow)
e. Any standing water
f. Water lines
g. Gas lines
h. Property lines
i. Drainage ditches (include direction of flow)
j. Access roads
k. Easements
l. Under drain systems (include direction of flow)
m. Structures
n. Proposed facilities (buildings, lagoons, etc.)
o. Proposed application areas and buffer zones
p. Proposed monitoring stations

3. Describe the type of sludge to be applied (i.e. municipal, industrial). Include a description of the basic process involved in the origin of the sludge and a description of pre-treatment and/or the sludge stabilization process. Include all chemicals utilized in the treatment process.

Municipal Sludge originates with primary treatment at Alki. The raw sludge is digested under anerobic conditions for approximately 20 day at 90° F. This stabilization process is classified as a "method to significantly reduce pathogens" by EPA (40 CFR 257) The sludge is drawn from the digesters at 10% and transported to the site.

4. Attach a copy of the most recent (within the past twelve months) chemical analysis of a sludge sample that suitably represents the volume proposed for land application. The analysis should include the following parameters:

pH	Sulfates	Cadmium
Total Solids	Potassium	Chromium VI
Total Volatile Solids	Magnesium	Lead
Total Nitrogen (Kjeldahl)	Copper	Mercury
NO_3-N (Filtered)	Zinc	Selenium
NH_3-N (Un-Filtered)	Iron	Silver
Total Phosphate	Nickle	Halogenated Hydrocarbons
Total and Fecal Coliform	Manganese	Polycyclic Aromatic Hydrocarbons
Total Fecal Strep	Arsenic	PCB's
TOC	Barium	

NOTE: In certain cases, some of these tests may be waived upon written request; Also, additional tests may be required.

5. Briefly describe the recent (over the past 5 years) history of the proposed site in terms of silvaculture, crop usage, pasture, etc. and anticipated future use of the site. The site is restricted to no public access without permission from the airport. The areas to be applied are grass areas between runways. These grass areas have been and will be used in the future to hold the dirt in place so that the jet engines do not cause erosion in these areas.

6. Estimate the total annual volume in tons per year of sludge to be applied at the proposed site.

480 wet tons in 1983

7. Submit a chemical analysis of a representative soil sample from the proposed site. The analysis shall include the following: pH, % organic matter, cation-anion exchange potential, total phosphorous, calcium, magnesium, potassium, copper, zinc, iron, cadmium, and nitrates. Other testing may be required on a case-by-case basis.

See att.

Submit a soil profile that is representative of the site and includes a U.S. Department of Agriculture Soil Conservation Service map. Also a brief description of the site geohydrology should be forwarded, showing ground water elevation(s), (seasonal fluctuations), direction of ground water flow, any perched acquifers, etc. See att.

9. Briefly describe your proposed surface water monitoring program. The parameters shall include testing for the indicator organisms of fecal coliform and fecal streptococci, as well as nitrates, COD, conductivity and other parameters as required by the Health Department. Also a description of all streams and water bodies located on or near the site must be included showing size, flow, uses, and water quality. There are no streams or water bodies located on or near the site

10. Briefly describe your proposed ground water monitoring plan. The parameters required in the surface water monitoring program (8) should also be included in the ground water quality check. Since this area is served by the Seattle Water Dept., no domestic wells are in the area. Ground water flows into Puget Sound via the Duwamish Waterway.

11. Briefly describe the method of transportation and application of sludge. Include type of equipment to be utilized, application rates, and post application field work. The sludge will be transported in a 6000 gal. semi tank trailer. The same truck and trailer will spread the material via a splash plate-mounted on the rear of the tank.

12. Briefly describe the access route from the sludge source to the land application site. Include load limits, bridges, road type and whether seasonal restrictions will apply. Include access controls to the site, fencing, gates, and signs. The sludge will be transported from Alki via roads currently used to haul the material. Access to the site will be coordinated through the King County Police station at the airport.

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PART III - Government Approval, Associate Legal Considerations, Etc.

1. Attach a copy or synopsis of:

   a. A document of title, i.e. deed, real estate contract, or deed of trust.
   b. Any leases
   c. Any easements

2. Please list any other governmental agency permits that are required for this operation (e.g. State DNR, King County BALD - unclassified use/grading permits). None Required

3. The Health Department has [X] /has not [ ] /previously received a copy of your threshold determination or other evidence of SEPA compliance and therefore does [ ] /does not [X] require submittal of same.

Property Owner Sign Here _____ Date _____

Mark Lucas (Metro) Aug. 12, 1983
If preparer is other than the property owner, sign here and answer the following questions: Date

you have power of attorney for the property owner?

Yes _____ No X

Contact person regarding this application.

Name Duane Moe (King County Airport)

Address P.O. Box 80245
Seattle Wash. 98108

Phone 344-7390

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